

Special Issue

Fabrication of Metallic Micro-/Nano-Composite Materials for Environmental Applications

Message from the Guest Editors

We warmly invite you to submit your contributions, in the form of both original research articles and review papers, which will inspire research towards the next generation of fabricating multifunctional composite materials for environmental applications. Potential topics include, but are not limited to:

- Laser-assisted or chemical synthesis of catalytic nanoparticles, the surface science of nanomaterials, and surface effects at nanoscale and applications;
- Laser surface treatment or chemical synthesis of filtration membrane surface for separation, surface engineering, and functionalization;
- Physical and chemical deposition of nanostructured coatings for photocatalysis, piezocatalysis or piezo-photocatalysis, and functional surfaces and coatings;
- Antimicrobial and antifouling metallic coatings/filters for water purifications, electrochemistry at surfaces, and corrosion protection strategies;
- Theories and simulations analyzing the kinetics and mechanisms of fundamental processes during the growth of nanostructured materials on filter support, and thermophysical aspects of surfaces and interfaces.

Guest Editors

Dr. Rui Zhou

Prof. Dr. Hongjun Liu

Prof. Dr. Gang Han

Deadline for manuscript submissions

closed (20 December 2023)



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Impact Factor 2.8
CiteScore 5.4



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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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